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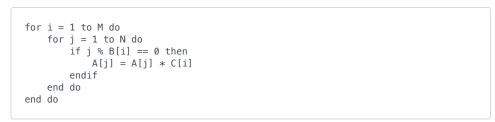


Problem Submissions Leaderboard Discussions Editorial

Change language : English

Watson gives to Sherlock an array: A_1,A_2,\cdots,A_N . He also gives to Sherlock two other arrays: B_1,B_2,\cdots,B_M and C_1,C_2,\cdots,C_M .

Then Watson asks Sherlock to perform the following program:



Can you help Sherlock and tell him the resulting array A? You should print all the array elements modulo $(10^9 + 7)$.

Input Format

The first line contains two integer numbers N and M. The next line contains N integers, the elements of array A. The next two lines contains M integers each, the elements of array B and C.

Output Format

Print N integers, the elements of array A after performing the program modulo $(10^9 + 7)$.

Constraints

 $1 \le N, M \le 10^5$ $1 \le B[i] \le N$ $1 \le A[i], C[i] \le 10^5$

Sample Input

```
4 3
1 2 3 4
1 2 3
13 29 71
```

Sample Output

13 754 2769 1508

Suggest Edits



1132 hackers have submitted co







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